



SP89 Pistol

SP89 Pistol

9mm x 19mm Parabellum



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Instruction Manual



Heckler & Koch, Inc.
U.S.A.

**WARNING: READ ALL INSTRUCTIONS BEFORE
HANDLING & USING THIS FIREARM.**

SAFETY RULES

PLEASE READ THIS BEFORE HANDLING YOUR FIREARM.

The following safety rules are placed in this manual by Heckler & Koch, Inc. as an important reminder that firearms safety is your responsibility. Firearms can be dangerous and can potentially cause serious injury, damage to property or death, if handled improperly.

1. Never point a firearm at anyone, or in any direction other than a safe one, i.e., downrange.
2. Always treat all firearms as if they were loaded.
3. Keep your finger off the trigger until your sights are on the target.
4. Keep your finger off the trigger while loading or unloading the pistol.
5. Keep your finger off the trigger while pulling pistol out of the holster or holstering.
6. Be sure of your target and the back stop beyond.
7. Never give to or take a firearm from anyone unless the action is open.
8. Be sure that the ammunition you are using is factory loaded and is not damaged in any way.
9. Before firing, remove the magazine from the weapon, lock the bolt to the rear and check the barrel of your unloaded firearm for any possible obstructions.
10. Before firing any firearm unfamiliar to you, make sure that you understand how it functions. Unfamiliarity can cause serious accidents. Attend a certified training course on any firearm which you intend to use or with which you are not sufficiently familiar.
11. Wear hearing protection and eye protection when shooting your firearm.
12. Keep your hands and fingers away from the muzzle to avoid injury or burns.
13. Firearms and ammunition should be stored separately beyond the reach of children and untrained or irresponsible adults.
14. Avoid the use of alcoholic beverages before and during any shooting.

REMEMBER: A FIREARM HAS THE CAPABILITY OF TAKING YOUR LIFE OR THE LIFE OF SOMEONE ELSE! BE CAREFUL WITH YOUR FIREARM -- AN ACCIDENT IS ALMOST ALWAYS THE RESULT OF NOT FOLLOWING BASIC SAFETY RULES.

IMPORTANT WARNING! READ ALL OF THIS MANUAL BEFORE HANDLING YOUR GUN.

SP89 Pistol

Caliber 9mm x 19 Parabellum



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SECTION I - Introduction

Congratulations! You have just purchased one of the worlds finest 9mm handguns. The SP89 pistol uses the same advanced engineering and high quality craftsmanship found on all firearms produced by Heckler & Koch. The SP89 is a pistol which sets new standards for accuracy and ruggedness in its class. It functions under the most severe environmental conditions and typically gives 5-shot groups of 2 to 3.5 inches at 50 meters when used with high quality ammunition. HK has been making innovative high-quality products since 1948, and we are now proud to bring you this premier sporting pistol.

Please read the following instructions carefully and completely to maximize your safety and shooting pleasure with your HK pistol. Be a responsible gun owner!

**WARNING - READ THIS ENTIRE MANUAL
BEFORE YOU HANDLE YOUR PISTOL. BE
A SAFE SHOOTER! BE FAMILIAR WITH
YOUR GUN BEFORE YOU SHOOT IT !**

SECTION II - Ammunition

AMMUNITION WARNING NOTICE:

HECKLER & KOCH, INC. SPECIFICALLY DISCLAIMS ANY RESPONSIBILITY FOR ANY DAMAGE OR INJURY THAT SHOULD OCCUR BECAUSE OF, OR AS A RESULT OF, THE USE OF FAULTY, RE-MANUFACTURED, OR RELOADED AMMUNITION (HAND LOADED), OR OF CARTRIDGES OTHER THAN THOSE FOR WHICH THE PISTOL WAS ORIGINALLY CHAMBERED IN 9MM X 19, ALSO KNOWN AS 9MM LUGER OR 9MM PARABELLUM FOR PISTOLS.

The following guide lines should be considered when selecting the correct ammunition for your pistol:

1. Be sure the ammunition you have chosen is compatible with your weapon-- proper caliber, designated 9 x 19, 9mm luger, or 9mm parabellum for pistols.
2. Prior to loading the magazine and chamber, carefully inspect all cartridges for the following abnormalities:
 - a) Cracked or split cases
 - b) Improperly seated bullets and primers
 - c) Damaged bullets

WARNING: IMPROPERLY LOADED AMMUNITION CAN CAUSE DAMAGE TO THE PISTOL AND/OR INJURY TO THE SHOOTER OR BYSTANDERS.

3. Do not attempt to fire a round in which the projectile has been forced back into the case. This condition, upon firing, may result in increased chamber pressure above safe limits.
4. Plus P (+P) and Plus P Plus (+P+) 9 x 19 are cartridges loaded to higher than industry standard chamber pressures in order to achieve higher velocity. This ammunition is marked by the designator "+P" or "+P+" on the head stamp of the cartridge and on the cartridge box. While this type of

ammunition is safe to fire in your SP89, it does cause increased wear and tear on the pistol. In the case of those HK SP89 pistols used with "+P" or "+P+" ammunition our lifetime limited warranty will not be in effect. Overhaul and/or repair of worn or malfunctioning SP89 pistols fired with "+P" or "+P+" ammunition will be done by our repair department in accordance with our regular price schedule for parts and labor. If "+P" or "+P+" ammunition must be used limiting its use to familiarization firing and duty carry will lengthen the time before periodic mechanical maintenance or overhaul would be required.

5. Use of military surplus ammunition is a risky affair. Let the buyer beware! Some lots of military surplus ammunition are overpressure and/or primed with corrosive primers. Heckler & Koch will not repair under warranty any HK firearm damaged or corroded by military surplus ammunition.
6. If you need advice on ammunition selection see your HK Authorized Dealership, or call our Customer Service Department at 1-703-450-1900.

SECTION III Function and Operation of the SP89

1. WARNING--Your SP89 will provide you with years of shooting enjoyment, BUT you must never forget that your SP89 is a deadly weapon, capable of inflicting death, bodily injury, or property damage if mishandled. If you have not yet read the safety rules on the inside cover of this owners manual, please do so now before continuing.

2. IMPORTANT - The nomenclature of the SP89's operating parts and controls follows. Please study them so that you can better understand the operating instructions. (See figures 6A & 6B)



Figure 6A SP89 Right Side View



Figure 6B SP89 Left Side View

3. OPERATING PRINCIPLE IN BRIEF

The weapon is loaded and cocked, with the safety off.

Pulling the trigger releases the hammer, which strikes the firing pin. The cartridge is ignited. The powder gases thus generated drive the bullet out of the barrel. At the same time, these gases also exert pressure on the cartridge case.

This causes forces to act on the bolt head face; a portion of these forces is transmitted to the receiver and a portion to the bolt head carrier, via the locking piece; the angular ratio of the locking piece and barrel extension results in a delayed-reaction movement of the bolt head. The bolt head must first roll the rollers in onto the locking piece to begin pushing the bolt carrier to the rear before it and the bolt head carrier are free to move to the rear. This guarantees that the bolt keeps the barrel locked until the bullet has left the muzzle. (See Figure 7)

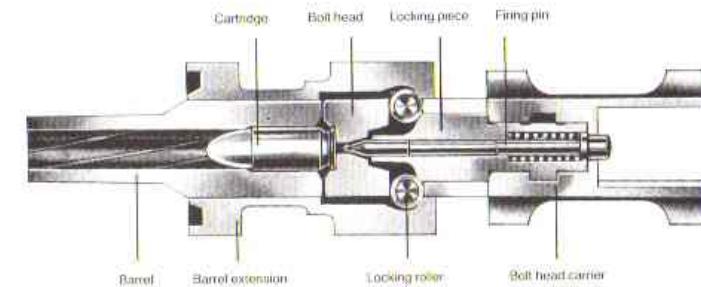


Figure 7 Bolt in locked position

After the locking rollers have been fully cammed into the bolt head, the bolt can continue its recoil movement. In the course of this movement, the empty cartridge case is ejected and the hammer recocked.

At the same time, the recoil spring is compressed, which returns the bolt to its forward position. During the course of this process, a new round is chambered from the magazine. The extractor engages the extracting groove in the cartridge case. As a result of the bevelled surfaces of the locking piece, the locking rollers are cammed into the supporting surfaces in the barrel extension (Figure 8). The weapon is now ready to fire again.

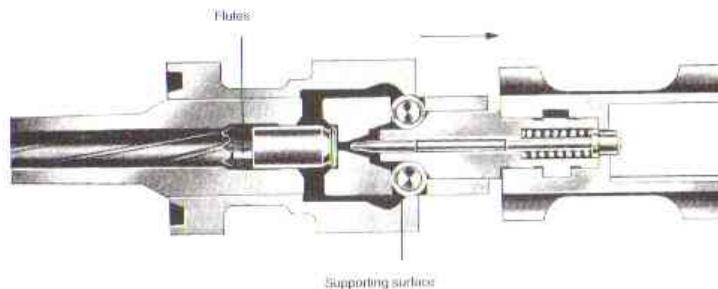


Figure 8 Bolt in unlocked position

SECTION IV - Loading and Handling the SP89

WARNING: Practice all steps in this manual with an unloaded pistol until you are familiar with the pistol. Treat your pistol with the caution and respect due to a loaded gun even when it is unloaded. Failure to follow this safety practice can lead to an accidental firing which can cause death or serious injury.

Keep the pistol pointed in a safe direction at all times.

1. To load the SP89 first insure that the safety is in the safe position as shown below.



Figure 9 Safe

The safety switch is located on the left side of the pistol just above the trigger. It is in the safe position when the thumbpiece is aligned in its detent stop next to the white figure "O". A safety indicator is located on the right side of the pistol opposite the safety switch. The white line on the indicator will point to "O" when the safety is on.

WARNING - The pistol will fire if you hold the trigger pulled and switch the safety to the "fire" position (!).

2. Depress the magazine release button on the right side of the pistol (fig. 6A) and withdraw the magazine downward and away from the pistol. Set the magazine aside.
3. Grasp the cocking handle and pull it to the rear as far as it will go. With the cocking handle pulled back, raise the cocking handle into the retaining notch and let go of it. The cocking handle will stay to the rear in this notch.

4. Look into the ejection port (see Figure 6A) and examine the cartridge chamber at the rear of the barrel to make sure that it contains no ammunition. If the chamber is empty, place the pistol aside. If it is not, see the trouble shooting section.

5. Now that the pistol has been cleared of ammunition and placed on safe, you may load cartridges into the magazine. Use ammunition as described in Section II, "Ammunition."

While holding the magazine in one hand, depress cartridges straight down into the magazine with the tips of the bullets pointing toward the front of the magazine (Figure 10).



Figure 10 Filling the magazine

until the cartridge snaps under either the right or left magazine lip. The standard magazine can hold up to 15 cartridges, and optional magazines can hold up to 30 cartridges.

6. Insert the loaded magazine into the magazine well with the bullets pointing toward the front of the pistol. Press it in until you hear the magazine catch "click" which locks it into place.

7. Be sure the pistol is now pointed in a safe direction. Hold the grip firmly in the firing hand. Smartly slap the cocking handle down out of the retaining notch with your other hand going in a right to left motion. Allow the cocking handle to fly forward by itself. Do not try to ease it shut. You have now placed a live cartridge into the firing chamber of the barrel. Grasp this pistol with one hand supporting the other on the grip.

8. Align the pistol with your target. Depress the thumb piece of the safety until it stops at its detent stop aligned with the red number "1" (Figure 11).



Figure 11

Your SP89 is now ready to fire.

STOP

THINK!

WARNING: DO NOT SHOOT unless ...

you know exactly what your bullet will hit at your target and beyond it before it buries itself into a solid backstop. Once fired, "I'm sorry!" does not call your bullet back. You are responsible for where your bullets go. Be safe! Not sorry!! Death or serious injury can occur.

9. Align the sights on your target by placing the post of the front sight in the middle of the rear sight notch. The top of the front sight post should be even across with the top of the rear sight notch. Place the aligned sights on the center of the target you wish to hit. Some target shooters may wish to re-calibrate the sights so that they can be aligned at the "6 o'clock position" on a bullseye target. (See Figures 11 & 12).



Front Sight



Rear Sight



Front Sight aligned in Rear Sight

Figure 11



Figure 12A
Sights aligned
on "center hold"



Figure 12B
Sights aligned
on "six o'clock hold"

10. With the sights aligned as described above, breath in, breath out and relax while holding your breath. Apply a steadily increasing pressure to the trigger. When the pressure you place on the trigger is enough, the pistol will fire. The pistol ejects the fired cartridge case and loads a fresh cartridge from the magazine by itself. You are ready to fire again as soon as you release the trigger allowing it to reset. You may continue to fire the pistol in this fashion until the supply of cartridges in the magazine is exhausted.

WARNING! If the pistol goes "click" and does not fire a chambered cartridge, a "hangfire" or delayed ignition may occur, especially with old ammo. Keep the pistol aimed at target for 20 seconds. If the pistol does not fire, unload the magazine, put on safe, unload defective cartridge avoiding exposure to ejection port. Discard defective cartridge in a safe place. If you hear any unusual noise, partial ejection of brass, or reduced load, unload pistol, disassemble and inspect barrel to make sure no bullet is stuck in barrel. DO NOT attempt to fire the pistol with a blocked barrel. Damage will result and possibly death or injury.

11. Reloading -

Should you wish to reload the pistol with a spare loaded magazine, first place the pistol on safe. Press the magazine release button and withdraw the empty magazine. Pull back and lock the cocking handle to the rear. Insert the freshly filled magazine until it locks. Slap the loading handle down to chamber a cartridge. Place the pistol on fire and you may realign the sights and continue firing as above.

WARNING - During reloading point the pistol only at your intended target. Do not point it at your toes, shooting bench, other persons, or anything you do not intend to shoot. Death or serious injury can occur.

12. Unloading and Clearing -

To unload and clear your SP89, first place the safety in the safe position. Remove the magazine. Draw the cocking handle to the rear and lock it there. If your pistol was loaded the cartridge that was in the firing chamber will be ejected out through the ejection port. Look through the ejection port and make sure no cartridge remains in the firing chamber.

READ ON! More important safety information follows.

SECTION V - Field Stripping for Cleaning and Reassembly.

A. Disassembly

1. First keep the pistol pointed in a safe direction, then unload and clear your SP89. (see page 13)
2. Depress the cocking handle and allow the bolt to close.
3. With the bolt in the forward position, remove the two end cap pins by pressing them out from side to side and pulling them out (see Figure 14A).



Figure 14A

4. Remove the end cap from the rear of the pistol. (Figure 14B).



Figure 14B

5. Swing the grip assembly down and off of the pistol. (Figure 15A)



Figure 15A

6. With one hand draw the cocking handle to the rear and catch the rear of the recoil spring rod with your other hand. Remove the bolt group from the pistol by pulling back on the recoil spring rod. (Figure 15B)

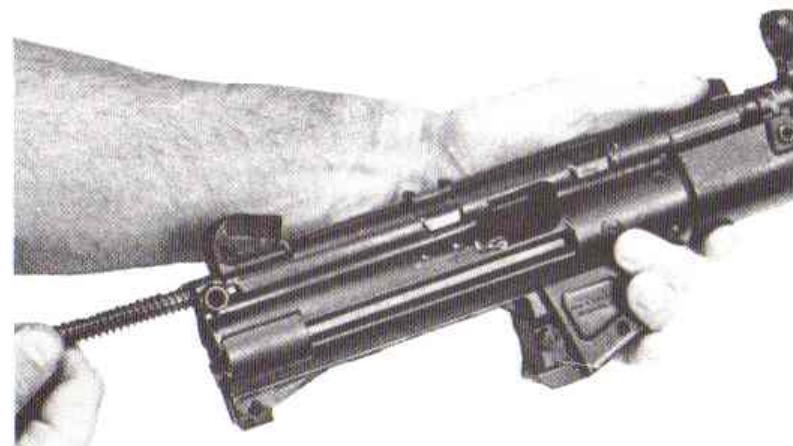


Figure 15B

8. Press out and remove the forepiece pin (see Figure 16A)

9. Remove the forepiece from the pistol (Figure 16B) .



Figure 16A



Figure 16B

10. Disassemble the bolt group as follows:

a. Hold the bolt assembly with the bolt head to the left, and the recoil spring rod to the right.

b. Turn the bolt head 90 degrees toward you. It will pop slightly forward and you may remove it. (Figure 16C).

c. Draw the locking piece, firing pin, & firing pin spring out of the bolt carrier. (Figure 16D)



Figure 16C

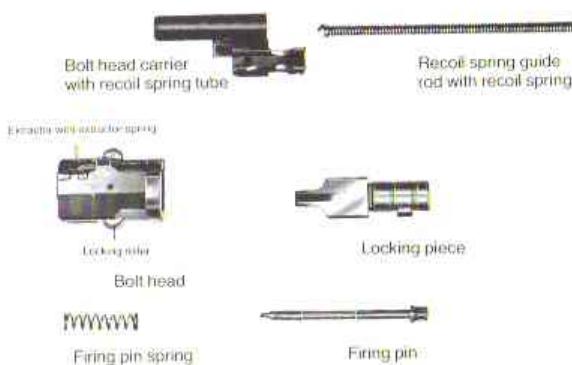


Figure 16D

11. The grip assembly can be further disassembled for cleaning as follows:

a. Rotate the safety thumbpiece up past the safe position until it is pointing straight up. (Figure 17A). It can now be drawn out the left side of the grip assembly. The trigger mechanism can be taken out from the top of the grip frame by pulling up on the hammer. (see Figure 17B).

No further disassembly of the trigger mechanism is required. No further disassembly of the trigger group is recommended.



Figure 17A



Figure 17B

B. Reassembly - Reassembly is performed after the pistol has been cleaned.

1. Replace the trigger mechanism into the grip frame to the same position it came from.

2. Insert the safety shaft into its hole with the thumbpiece pointing up. When it is inserted as far as it will go rotate the thumbpiece toward the safe, or "O" position until it engages in that position. Put the grip assembly aside now.

3. Take up the bolt carrier and place the firing pin into the bolt carrier from the front. Make sure the pointed end of the firing pin is protruding from the front end of the bolt carrier. (Figure 17C).



Place the firing pin spring around the firing pin. Slide the locking piece onto the firing pin. Align the lobe on the shaft of the locking piece with the slot on the bottom of the locking piece well in the bolt carrier. Press in the locking piece as far as it will go and turn it counterclockwise just enough so that it will stay in place. This will be about 30 degrees (Figure 18A). Slide the bolt head onto the locking piece as far as it will go. The top of the bolt head with the round hole in it should be aligned with the left side of the locking piece with the groove cut into it. Twist the bolt head counter clockwise until it stops. (Figure 18B)



Figure 18A

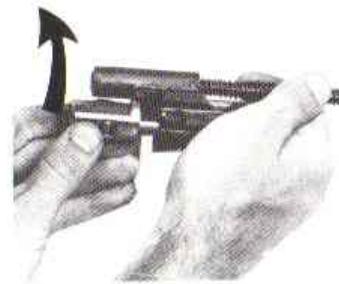


Figure 18B

4. Insert the bolt assembly into the rear of the receiver. The bolt head must be extended forward to do this. The locking rollers collapse into the bolt head when it is extended, allowing the bolt assembly to enter the receiver (see Figure 18C).



Figure 18C

5. Seat the front bottom edge of the grip assembly on the shelf or the back of the magazine well. Swing the grip assembly up onto the receiver. (Figure 19A)



Figure 19A

6. Replace the receiver back cap onto the rear of the receiver. Replace the two retaining pins. (Figure 19B). Replace the fore piece on the barrel. Push in the fore piece retaining pin. The SP89 is now reassembled.



Figure 19B

SECTION VI - Cleaning and Maintenance

After each firing session disassemble and clean your SP89. Well-cared-for guns last far longer than guns which are neglected or abused. Even though modern factory loaded ammunition does not promote corrosion, it does not inhibit it either. Your SP89 receiver is phosphated and a baked lacquer is applied over the phosphating to maximize corrosion resistance. With a tough finish like this, and your regular cleaning, your pistol will look like new for many years. Clean weapons function better too!

1. Clean the barrel and chamber area with a good cleaning oil or solvent.* Apply it first with a brass or bronze bore brush of the 9mm/38 size. (Do not use stainless steel bore brushes. They damage some bores). Run through 6 to 8 times, followed by clean patches soaked in bore cleaner until the patches come out clean. (Run a dry patch through the barrel to remove oil before your next shooting trip. If you might need to use your pistol quickly, leave only a very thin coat of oil in the barrel).

*Cleaners and lubricants we have found to be effective include Break-Free CLP, Ballistol, Hoppe's #9, and for bore cleaning only Shooters Choice and Hoppe's Bench Rest.

2. Wipe the built-up black carbon deposits out of the locking recess area just behind the chamber with a rag soaked in cleaning oil. The HK chamber face cleaning brush may be used on very heavy deposits.

Wipe out the entire inside of the receiver lightly also.

3. Wipe black fouling off other disassembled parts with a rag soaked in cleaning oil.
4. When all parts are cleaned leave a light coat of oil on each part.
5. One or two drops of oil should be placed inside the rear sight assembly to aid in fighting corrosion and to keep the sight parts able to move freely.

SECTION VII - Adjusting your Sights

WARNING! Adjust sights only when pistol is unloaded. Death or serious injury can occur.

Adjusting the HK rotary rear sight requires a HK sight adjusting tool, or a Phillips head screwdriver and a pair of small snap-ring retainer pliers. Adjustments are made as follows:

TO ADJUST ELEVATION:

Look down into the rear sight drum and you will see four vertical grooves running up and down inside of the drum. Opposing spring loaded catch bolts can be seen pressing outward from the spindle into an opposing pair of the vertical grooves. Slide the "fingers" of the sight adjusting tool down into the same two grooves where the catch bolts are located until the fingers rest firmly on the catch bolts. While pressing the sight adjustment tool down, slide the screwdriver shaft into the rear of the sight adjusting tool as far as it will go. The screwdriver shaft cams the fingers together, which squeezes the catch bolts out of engagement with the sight drum and back into the body of the spindle. With one hand, hold the tool and screwdriver still, and now you will be able to rotate the outer sight drum either up or down on the spindle to change elevation. When you remove the sight adjusting tool from the sight, the catch bolts will pop back out again and engage the sight drum at the point you have chosen to set the elevation. You can now rotate the entire sight drum and spindle assembly together back to the appropriate width of notch for your available light conditions.

TO ADJUST WINDAGE:

Use the Phillips head screwdriver to loosen the clamping screw at the top rear of the sight 3/4 of one turn. Now with the screwdriver, turn the adjusting screw, which is located at the right rear of the sight, clockwise to move the bullet point of impact to the left, or counterclockwise to move the point of impact to the right. After making windage adjustment re-tighten the clamping screw.

Sight adjustments are in the following increments:

1/4 turn elevation = approx. 1 inch @ 25 meters
1/4 turn windage = approx. 1 inch @ 25 meters

SECTION VIII - Trouble Shooting

Problems	Cause(s)	Remedy
Pistol goes click when trigger is pulled but does not fire	Hangfire (delayed ignition)	Continue to aim for 20 seconds
	Misfire (dud)	After 20 seconds unload weapon avoiding exposure to ejection port. Discard dud cartridge in a safe place.
	Failure of bolt to close	a. Unload pistol, check for empty brass casings in pistol, clean pistol if it is heavily fouled. b. Allow bolt to close freely, do not ease it shut.
	Broken firing pin	Replace firing pin
	Pistol not loaded	Load magazine, seat magazine, load chamber with a cartridge.
Reduced noise when gun fires.	Possible cartridge with little or no powder.	Unload and clear pistol. Disassemble pistol and inspect barrel for stuck bullet. Have gun smith remove bullet from barrel before attempting to fire. See a competent gunsmith!

Problems	Cause(s)	Remedy
Pistol "jams" when feeding	Bullet shape too flat, catches on edge of chamber	Change ammo
	Bent magazine lips misguide cartridge or fail to lift cartridge into position to feed.	Change magazine
Pistol fails to eject empty cartridge case or ejects weakly	Weak ammo	Unload pistol, disassemble pistol and check for bullet stuck in barrel. If bullet is stuck in barrel see gunsmith for help before attempting to continue.
	Weak extractor spring	If extractor rattles loosely on bolt head replace extractor spring
	Broken ejector	Replace ejector in grip assembly.

NEED HELP ? CALL HK CUSTOMER SERVICE at (703) 450-1900

ACCESSORIES

Genuine HK accessories can be purchased at any HK Authorized Dealership. For the location nearest you, call (703) 450-1900. Insist on genuine Heckler & Koch accessories.

#211023 -9mm cleaning kit for pistols and carbines

#300009 - Sight adjusting tool

#700039 - HK claw lock quick detachable optic sight mount, 30mm with $\frac{1}{2}$ inch inserts

#700212 -ARMS brand quick detachable mount with Weaver system and NATO Stanag rail.

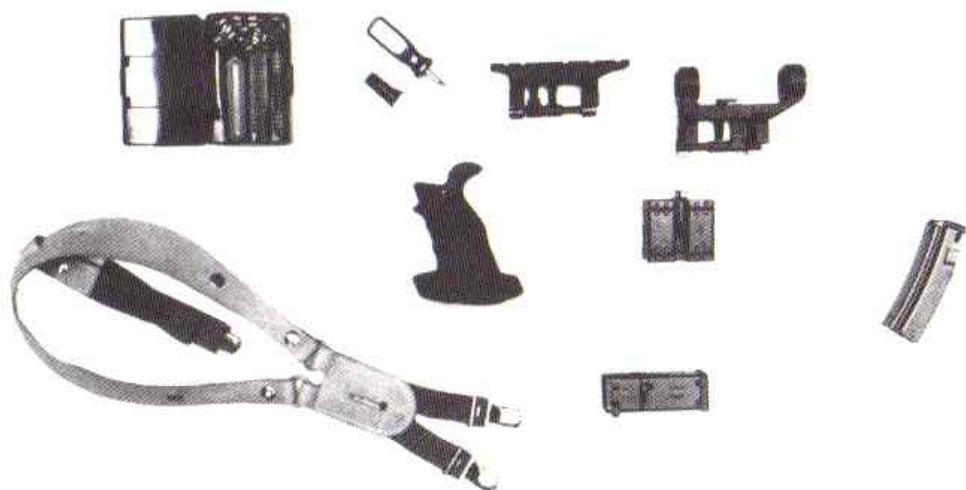
#224823 - PSG-I adjustable target grip

#222144 -Magazine clamp to hold two magazines.

#928186 -Leather shoulder harness

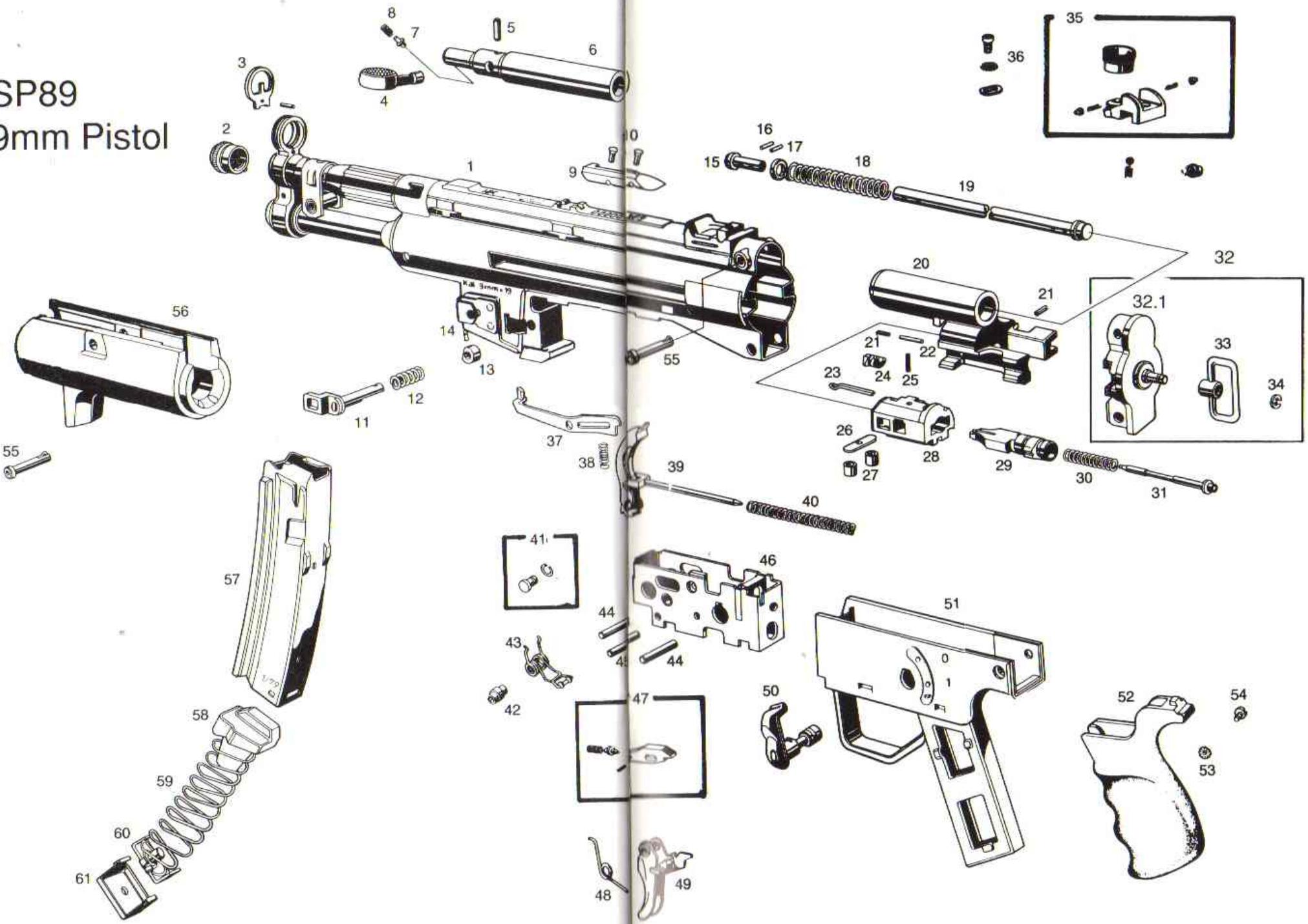
700980 - Nylon shoulder carry rig with magazine pouch (right hand)

700996 - Nylon shoulder carry rig with magazine pouch (left hand)



It is hereby understood and agreed to by the purchaser herein, that by the purchase and acceptance of this pistol, the purchaser shall not re-export this firearm or cause this firearm to be re-exported to Germany.

SP89 9mm Pistol



SP89 Parts List

1. Receiver, complete	Factory Installed	922613
2. Cocking tube cap	206497	200459
3. Front sight	200415	228811
4. Cocking handle	205905	206478
5. Roll pin	922609	206675
6. Cocking handle support	205909	206679
7. Plunger	205910	206680
8. Plunger spring	202495	201654
9. Cartridge case deflector	201526	
10. Rivets for deflector	201527	
11. Magazine catch	206228	
12. Spring for magazine catch	200393	
13. Button for magazine catch	202538	
14. Roll pin	922608	
15. Stop pin	205603	
16. Rivets for stop pin	200526	
17. Guide ring	200524	
18. Recoil spring	206391	
19. Recoil spring tube	206401	
20. Bolt head carrier	Factory Installed	
21. Roll pin	205597	
22. Stop pin for locking piece	201597	
23. Extractor spring	206645	
24. Extractor	201610	
25. Roll pin for roller holder	200450	
26. Roller holder	200449	
27. Locking roller 8.0mm	Factory Installed	
28. Bolt head complete (pts 23-27)	Factory Installed	
29. Locking piece	Factory Installed	
30. Firing pin spring	201601	
31. Firing pin	201600	
32. Butt cap complete	206409	
32.1 Butt cap	206416	
33. Ring	205935	
34. Washer	206394	
35. Rear sight	206407	
36. Rear sight mounting parts	200988	
37. Ejector	201639	
38. Ejector spring	200478	
39. Hammer w/strut	Factory Installed	
40. Hammer spring	201638	
41. Ejector axle w/spring	200479	
42. Distance sleeve	221022	
43. Sear spring w/roller	202545	
44. Axle for trigger & sear	200482	
45. Axle for hammer	200494	
46. Trigger housing	202548	
47. Sear assembly	Factory Installed	
48. Trigger spring	200483	
49. Trigger	225109	
50. Safety Axle	205621	
51. Grip frame	228820	
52. Grip	224997	
53. Toothed lock washer	922616	

HK SP-89 Pistol Technical Specifications

Caliber	9mm x 19
Operation	Recoil operated, delayed roller-locked bolt system
Magazine Capacity	15 rounds
Rifling	6 groove with constant right-hand twist
Barrel Length	4.5 inches
Overall Length	13 inches
Sights	Rotary aperture rear sight adjustable for windage & elevation, hooded front sight
Optical Sights	Any telescopic sight or aiming device compatible with HK claw-lock mounts
Weight	4.4 lbs.
Width/Height	1.96 inches/8.26 inches